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New **PIONEER** *Hybrids*

OCT 31 1944
Department of Agriculture

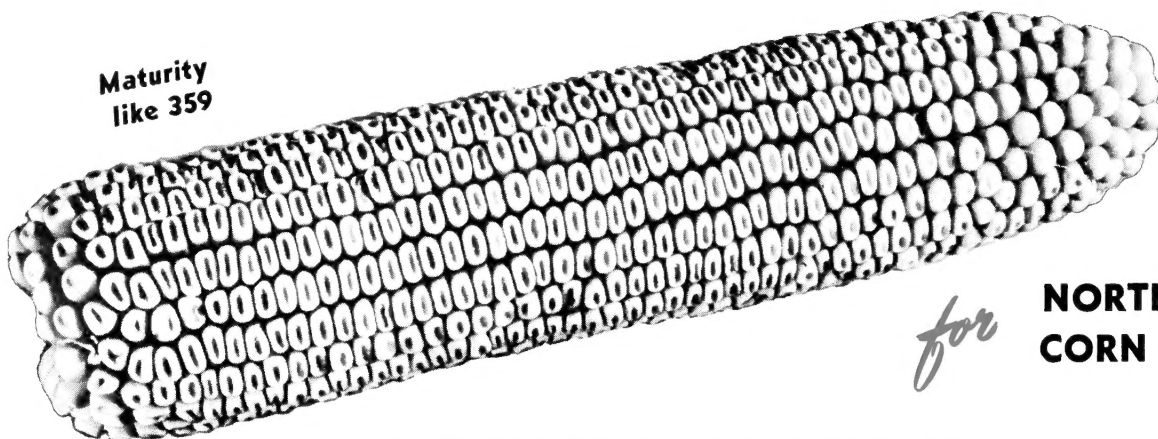


for **1945**

New

PIONEER

Maturity
like 359



for

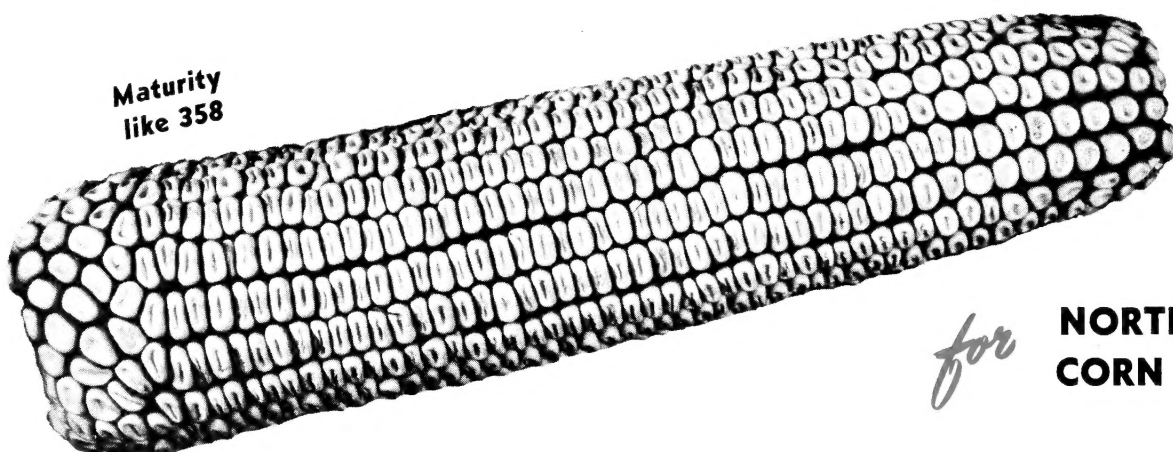
**NORTHERN
CORN BELT**

**PIONEER
359-A**

UNIFORM EARS—STIFF STALKS

Pioneer 359-A has been tested for two years in Minnesota where its yield has been a little more than 359—maturity slightly later with lower ear height and harder kernel texture. It is just as resistant to lodging as 359 and has somewhat better plant appearance. The maturity, lodging resistance, and yield of 359-A is very similar to 359 but it should be a more practical hybrid to produce.

Maturity
like 358



for

**NORTHERN
CORN BELT**

**PIONEER
379**

STANDS WELL—PICKS CLEAN BY MACHINE

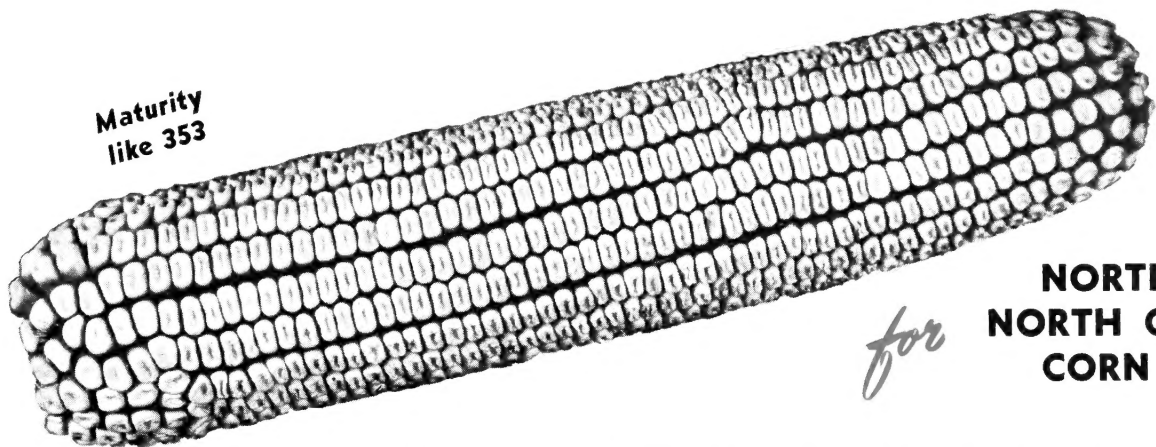
Pioneer 379 has exactly the same yield average as 355 for the last three years. It has had the same moisture content—identical ear height—same number of broken stalks—slightly less root lodging. Pioneer 379 is a little softer kernel texture than 355.

Among 8 hybrids tested in the 1943 Minnesota Pioneer popularity test Pioneer 379 was rated "second", with 359 as first. The yield of 379 is practically the same as 359—is slightly later—plants are somewhat larger and ears a little higher. Lodging resistance not quite as good as 359.

PERFORMANCE RATINGS and SUMMARY

Hybrids for 1945

Maturity
like 353



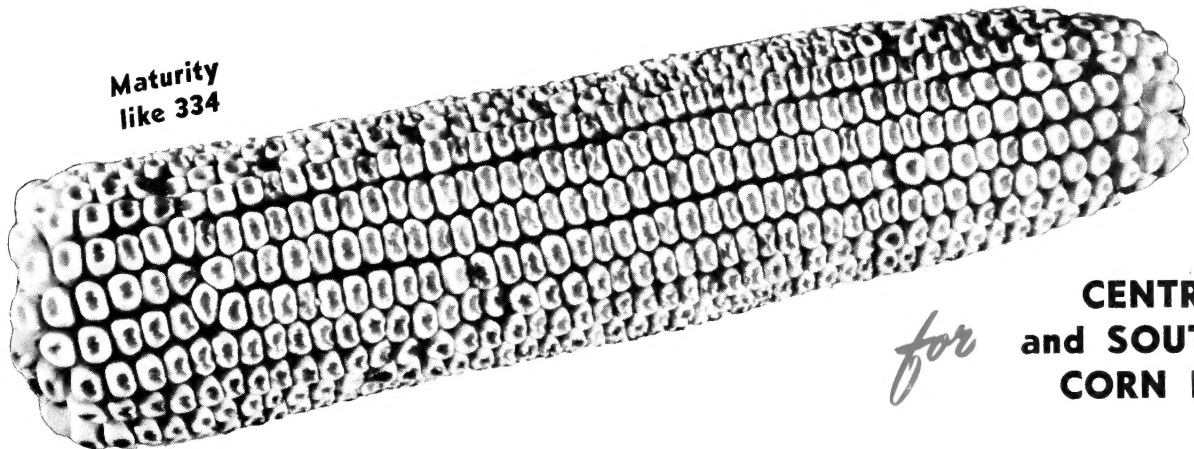
for **NORTH and
NORTH CENTRAL
CORN BELT**

**PIONEER
326**

HIGH YIELDS—SOFT STARCH KERNELS

In northern Iowa Pioneer 326 has averaged exactly the same yield for the last 3 years as 322—ears the same length with softer kernel texture. Moisture content about one half way between 353 and 322—a little lower eared than 322 and averages quite a few less broken stalks. Appearance of ears and plants have both been slightly better than 322. Pioneer 326 was included in the 1943 northern Iowa Pioneer popularity test. It ranked "second" in popularity among 8 hybrids tested—"good" in ear appearance and "fair" in hand husking.

Maturity
like 334



for **CENTRAL
and SOUTHERN
CORN BELT**

**PIONEER
339**

MEDIUM EAR HEIGHT—ABUNDANT YIELDS

Pioneer 339 has a higher four year (1940-1943) yield average in Central Iowa than any other Pioneer commercial hybrid except 300, which is exactly the same but about a week later. Ears which hang at medium height compared to other hybrids of its maturity are of good quality and appearance—are of good length with relatively soft kernel texture. Resistant to both root and stalk lodging. In the 1943, Central Iowa Pioneer popularity test, Pioneer 339 rated "average" on ear appearance—"good" with mechanical picker and "very easy" to husk by hand. During the growing season it has a rather light green plant color.

of CHARACTERISTICS - - - on next page

PIONEER

Performance Ratings

BASED ON AVERAGE RESULTS FROM PIONEER YIELD TESTS

Records shown below under each of the 3 maturity belts are based on averages of several years of testing in Pioneer hand planted, replicated test fields. Twenty hills of each entry are planted in six different locations in each field and averaged at harvest time. A number of fields are planted annually in each maturity belt and results averaged. Then results of preceding years are averaged with latest figures.

NORTHERN CORN BELT

Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks in the Fall	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
359	67 Bu.	16.6%	85	2	.2	40 In.
359-A	69	16.9	85	3	.6	36
379	69	17.0	83	3	.3	50
358	65	17.6	65	4	.7	39

Listed According To Moisture Content

NORTHERN AND NORTH CENTRAL CORN BELT

Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks in the Fall	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
353-A	70 Bu.	15.8%	76	7	.3	51 In.
353	71	15.9	77	2	.2	48
326	72	16.0	76	5	.1	46
322	72	16.6	77	11	.4	53

Listed According To Moisture Content

CENTRAL AND SOUTHERN IOWA CORN BELT

Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks in the Fall	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
330	71 Bu.	15.2%	92	1	1.4	43 In.
340	72	15.3	82	1	.7	45
339	75	15.7	88	3	.9	54
334	72	16.0	77	5	1.2	50

Listed According To Moisture Content

SUMMARY of CHARACTERISTICS

of Twelve PIONEER Hybrids

PIONEER.....	359	359-A	379	358	353-A	353	326	322	330	340	339	334
STRENGTH OF ROOTS.....	VERY STRONG	STRONG	STRONG	FAIR	VERY STRONG	VERY STRONG	STRONG	VERY STRONG	VERY STRONG	STRONG	VERY STRONG	FAIR
STIFFNESS OF STALKS IN THE FALL.....	VERY STIFF	STIFF	STIFF	VERY STIFF	STIFF	VERY STIFF	STIFF	FAIR	VERY STIFF	VERY STIFF	STIFF	STIFF
EAR DROPPING RESISTANCE.....	EXCELL'T	GOOD	EXCELL'T	GOOD	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	GOOD	EXCELL'T	GOOD	GOOD
ADAPTATION TO HAND PICKING.....	EXCELL'T	GOOD	GOOD	EXCELL'T	GOOD	FAIR	GOOD	GOOD	EXCELL'T	EXCELL'T	VERY GOOD	GOOD
CLEANNESS OF HUSKING WITH MACHINE PICKER.....	CLEAN	CLEAN	CLEAN	CLEAN	CLEAN	FAIR	CLEAN	VERY CLEAN	VERY CLEAN	CLEAN	CLEAN	CLEAN
SHELLING RESISTANCE WHEN PICKED WITH MACHINE.....	GOOD	GOOD	GOOD	GOOD	EXCELL'T	EXCELL'T	GOOD	FAIR	EXCELL'T	GOOD	GOOD	EXCELL'T
LENGTH OF SHANK.....	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	LONG	SHORT	SHORT	MEDIUM	MEDIUM	MEDIUM
EARS PER STALK.....	ONE	ONE	ONE	ONE	ONE	ONE	ONE	Sometimes TWO	ONE	ONE	ONE	ONE
EAR HEIGHT.....	LOW	LOW	MEDIUM	LOW	HIGH	MEDIUM	MEDIUM	HIGH	LOW	MEDIUM	MEDIUM	MEDIUM
LENGTH OF EARS.....	MEDIUM	MEDIUM	MEDIUM	MEDIUM	LONG	MEDIUM	MEDIUM	MEDIUM	MEDIUM	LONG	LONG	LONG
HARDNESS OF KERNEL STARCH.....	MEDIUM SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT	MEDIUM SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT
LENGTH OF HUSK.....	LONG	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	LONG
SMUT RESISTANCE.....	EXCELL'T	GOOD	GOOD	GOOD	GOOD	GOOD	MEDIUM	EXCELL'T	EXCELL'T	EXCELL'T	GOOD	EXCELL'T
RESISTANCE TO MID-SUMMER STALK BREAKING.....	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	FAIR	GOOD	EXCELL'T	EXCELL'T

PIONEER Hi-Bred Corn Co.
DES MOINES, IOWA